CHARGE NUMBER: 4020

PROJECT TITLE: TOBACCO STUDIES

PROJECT LEADER: H. V. LANZILLOTTI

PERIOD COVERED: SEPTEMBER, 1985

I. Nonvolatile Components of Tobacco

Objective:

To separate, identify and subjectively evaluate nonvolatile components of Bright and Burley tobaccos.

Status:

Equipment is being assembled to enhance the prepscale separation of components from Bright tobacco extract fractions. These fractions were initially separated by column chromatography and have been subjectively determined to enhance the flue cured tobacco character of 100% DIET cigarettes.

II. RL

Objective:

Conduct investigations with Reconstituted Tobacco Development and Cooked Flavor Groups to improve the smoking properties of RL.

RL/RCB Status:

Cigarettes made from 100% unflavored RL treated with isolated RL/RCB precooked flavor components are being subjectively evaluated. Evaluations to date indicate that the two isomers of deoxyfructosazine contribute subjective characteristics which are different for each isomer. In addition, when the two are applied at the ratio found in precooked flavor, they produce yet another set of characteristics. Experiments of this type are needed to identify components important to RL/RCB subjectives and may give direction to efforts to improve the smoking properties of reconstituted tobacco in general.

Experiments are being conducted with a continuous cooked flavor reactor to determine if acceptable flavors can be produced using residence times predicted from theory based on experience with the batch mix reactor. Also, the ratio of reactants is being investigated in these experiments to elucidate reaction chemistry for specifications and to optimize process parameters. Initial results indicate that these parameters will be different from those found for the batch mix.

Reactor equipment is being updated as ordered equipment is received. Results to date warrant proceeding with current experiments without waiting for a more idealized system to be built. Included in the ordered equipment are parts for multiple stage reactors.

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